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CENTRAL INTELLIGENCE AGENCY

REPORT

CD NO.

50X1-HUM

INFORMATION FROM

FOREIGN DOCUMENTS OR RADIO BROADCASTS

COUNTRY

USSR

DATE OF

TION TOLO

SUBJECT

Scientific - Chemistry, fuel chemistry

INFORMATION 1949

HOW

PUBLISHED

Monthly periodical

DATE DIST. / May 1950

WHERE

PUBLISHED

DATE

PUBLISHED

Feb 1950

Leningrad

NO. OF PAGES 1

LANGUAGE

Russian

SUPPLEMENT TO

REPORT NO.

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SOURCE

Zhurnal Prikladnoy Khimii, Vol XXIII, No 2, 1950.

INVESTIGATION OF THE PROPERTIES
OF GUMBRIN AS A DEHYDRATING CATALYST

N. A. Butovich Chair of Petroleum Chem and Tech Azerbaydzhan Inst imeni Azizbekov Submitted 20 Apr 1949

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Unsaturated hydrocarbons can be obtained by dehydrating alcohols over auminium oxide or kaolin catalysts. In the present investigation naturally occurring gumbrin has been tested in regard to its suitability as a catalyst in the dehydration of fermentation isoamyl alcohol.

Isopropyl ethylene of boiling point 24 degrees centigrade and crude methyl ethyl ethylene of boiling point 30-34 degrees centigrade were isolated from the reaction product with the yields of 5 percent and 38 percent, respectively, so that gumbrin appears to be effective by virtue of its aluminium oxide content. Granulated gumbrin in a layer 10 centimeters thick (in a glass tube 15 millimeters in diameter) was used. One hundred grams of isoamyl alcohol of boiling point 130-131 degrees centigrade were passed through the catalyst-filled tube during 2 hours. The temperature was maintained at 380-400 degrees centigrade. The dehydration of isoamyl alcohol over aluminium oxide under identical conditions leads to a yield of 8-12 percent isopropyl ethylene.

This is a brief preliminary communication.

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